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30.08.95 Bulletin 95/35(71) Applicant: **Sachem, Inc.**
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D-81675 München (DE)(54) **Method for producing high purity hydroxides and alkoxides.**

(57) Processes are described for preparing organic and inorganic hydroxides or alkoxides and for improving the purity of organic and inorganic hydroxides or alkoxides utilizing an electrolysis cell. For example, a process for improving the purity of a organic or inorganic hydroxide is described, and the process comprises the steps of:

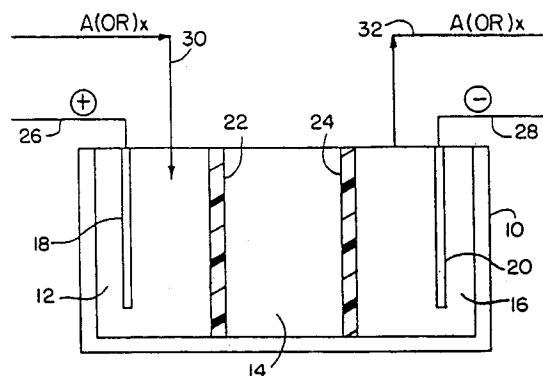
(A) providing a electrolysis cell which comprises a anolyte compartment containing an anode, a catholyte compartment containing a cathode and water, and at least one intermediate compartment containing water, an organic liquid, or a mixture of water and an organic liquid, said at least one intermediate compartment being separated from the anolyte and catholyte compartments by at least two dividers selected from nonionic dividers, cation selective membranes, or combinations thereof;

(B) charging a mixture comprising the organic or inorganic hydroxide and an oxidizable liquid to the anolyte compartment;

(C) passing a current through the electrolysis cell to produce a purified organic or inorganic hydroxide in the catholyte compartment; and

(D) recovering the purified organic or inorganic

hydroxide from the catholyte compartment. The process of the invention is effective in lowering the content of anions such as halide, nitrite, nitrate, carbonate, etc., some cations such as zinc, calcium, etc., and neutral organic materials such as methanol, amines, etc.

**FIG. 1****EP 0 652 041 A3**



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EUROPEAN SEARCH REPORT

Application Number
EP 94 11 7525

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	US-A-2 865 822 (C. R. MURPHY) ---		B01D61/44
A	US-A-3 779 883 (A. H. HEIT) ---		
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A,D	WO-A-90 06382 (SOUTHWESTERN ANALYTICAL CHEMICALS, INC.) ---		
A	US-A-4 036 717 (A. D. BABYNSKY) ---		
A	EP-A-0 093 435 (ORONZIO DE NORA IMPIANTI ELECTROCHIMICI S.A.) ---		
A	DE-A-42 33 191 (HÜLS AG) -----		
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			B01D C25B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 7 July 1995	Examiner Devisme, F
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